

SEQUENCE LISTING



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Danen-Van Oorschot, Astrid Adriana Anna Maria

<120> Molecules Interacting with Apoptin

<130> LEBV.006.01

<140> 09/555,981

<141> 1998-12-03

<150> PCT/NL98/00687

<151> 1998-12-03

<150> 97203781.6 EP

<151> 1997-12-03

<160> 13

<170> PatentIn Ver. 2.1

<210> 1

<211> 658

<212> DNA

<213> Apoptin-Associating Clone

<400> 1

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ttcaactaaa gaaggagatc caaaagcttg aaacggagtt acaagaggct accaaagaat 180
tccagattaa agaggatatt cctgaaacaa agatgaaatt cttatcagtt gaaactcctg 240
agaatgacag ccagttgtca aatatctcct gttcgtttca agtgagctcg aaagtccctt 300
atgagatata aaaaggacaa gcacttatca cctttgaaaa agaagaagtt gctcaaaatg 360
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aaatcaatgt tactgaaatt cctgacacat tgcgtgaaga tcaaatgaga gacaaaactag 540
agctgagctt ttcaaagtcc cgaaatggga ggcggagang tggaccgcgt gggactatga 600
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<210> 2

<211> 717

<212> DNA

<213> Apoptin-Associating Clone

<400> 2

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 ctttgaaaaa ggaagaagtt gctcaaaatg tgnngtaagca tgagtaaaca tcatgtacag 240
 ataataagat gtaaatctgg aggttacggc caaagccaag ttccattaat attcaaggag 300
 tcangattcc agngttatgc tagaangttt ctaaaaatga naatcaatgg ttactggaaa 360
 ttcttgga caattgcgntg aaagatcaag atgacgaaga caaactaaga agctgagctt 420
 ttcaaaagtc ccgaaanag gaagagcggg agaggggtggn accgcgtgng anctatgaca 480
 agacaagncc ggggaagntg cagtccatca cgtttgttng aagattggan gtnggctgac 540
 caangaatth tgaaaaaagga gangaattac ccctctttan gagtaanatc aaaaccctgc 600
 cataanaagt tnactggttt cncccattac acagnantta cannttganc aanantannc 660
 aggataatth ncagggggaan aatctnaagn atggcaagnt gacttctgga caanggt 717

<210> 3

<211> 219

<212> PRT

<213> Apoptin-Associating Clone

<400> 3

His Glu Gly Arg Gly Ile Met Glu Ala Asp Lys Asp Asp Thr Gln Gln
 1 5 10 15

Ile Leu Lys Glu His Ser Pro Asp Glu Phe Ile Lys Asp Glu Gln Asn
 20 25 30

Lys Gly Leu Ile Asp Glu Ile Thr Lys Lys Asn Ile Gln Leu Lys Lys
 35 40 45

Glu Ile Gln Lys Leu Glu Thr Glu Leu Gln Glu Ala Thr Lys Glu Phe
 50 55 60

Gln Ile Lys Glu Asp Ile Pro Glu Thr Lys Met Lys Phe Leu Ser Val
 65 70 75 80

Glu Thr Pro Glu Asn Asp Ser Gln Leu Ser Asn Ile Ser Cys Ser Phe
 85 90 95

Gln Val Ser Ser Lys Val Pro Tyr Glu Ile Gln Lys Gly Gln Ala Leu
 100 105 110

Ile Thr Phe Glu Lys Glu Glu Val Ala Gln Asn Val Val Ser Met Ser
 115 120 125

Lys His His Val Gln Ile Lys Asp Val Asn Leu Glu Val Thr Ala Lys
 130 135 140

Pro Val Pro Leu Asn Ser Gly Val Arg Phe Gln Val Tyr Val Glu Val
 145 150 155 160

Ser Lys Met Lys Ile Asn Val Thr Glu Ile Asp Asp Thr Leu Arg Glu
165 170 175

Asp Gln Met Arg Asp Lys Leu Glu Leu Ser Phe Ser Lys Ser Arg Asn
180 185 190

Gly Arg Arg Arg Cys Gly Pro Arg Gly Thr Met Thr Asp Ser Pro Gly
195 200 205

Val Gln Ser Ser Arg Leu Val Glu Ile Gly Ser
210 215

<210> 4

<211> 305

<212> PRT

<213> Apoptin-Associating Clone

<400> 4

Met Glu Ala Asp Lys Asp Asp Thr Gln Gln Ile Leu Lys Glu His Ser
1 5 10 15

Pro Asp Glu Phe Ile Lys Asp Glu Gln Asn Lys Gly Leu Ile Asp Glu
20 25 30

Ile Thr Lys Lys Asn Ile Gln Leu Lys Lys Glu Ile Gln Lys Leu Glu
35 40 45

Thr Glu Leu Gln Glu Ala Thr Lys Glu Phe Gln Ile Lys Glu Asp Ile
50 55 60

Pro Glu Thr Lys Met Lys Phe Leu Ser Val Glu Thr Pro Glu Asn Asp
65 70 75 80

Ser Gln Leu Ser Asn Ile Ser Cys Ser Phe Gln Val Ser Ser Lys Val
85 90 95

Pro Tyr Glu Ile Gln Lys Gly Gln Ala Leu Ile Thr Phe Glu Lys Glu
100 105 110

Glu Val Ala Gln Asn Val Val Ser Met Ser Lys His His Val Gln Ile
115 120 125

Lys Asp Val Asn Leu Glu Val Thr Ala Lys Pro Val Pro Leu Asn Ser
130 135 140

Gly Val Arg Phe Gln Val Tyr Glu Val Ser Lys Met Lys Ile Asn Val

145 150 155 160
 Thr Glu Ile Pro Asp Thr Leu Arg Glu Asp Gln Met Arg Asp Lys Leu
 165 170 175
 Glu Leu Ser Phe Ser Lys Phe Arg Asn Gly Gly Gly Glu Val Asp Arg
 180 185 190
 Val Asp Tyr Asp Arg Gln Ser Gly Ser Ala Val Ile Thr Phe Val Glu
 195 200 205
 Ile Gly Val Asp Lys Ile Leu Lys Lys Lys Glu Tyr Pro Leu Pro Ile
 210 215 220
 Asn Gln Thr Cys His Arg Val Thr Val Ser Pro Tyr Thr Glu Ile His
 225 230 235 240
 Leu Lys Lys Tyr Gln Ile Phe Ser Gly Thr Ser Lys Arg Thr Val Leu
 245 250 255
 Leu Thr Gly Met Glu Gly Ile Gln Met Asp Glu Glu Ile Val Glu Asp
 260 265 270
 Leu Ile Asn Ile His Phe Gln Arg Ala Lys Asn Gly Gly Gly Glu Val
 275 280 285
 Asp Val Val Lys Cys Ser Leu Gly Gln Pro His Ile Ala Tyr Phe Glu
 290 295 300
 Glu
 305

<210> 5
 <211> 659
 <212> DNA
 <213> Apoptin-Associating Clone

<400> 5
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 tggacaanct anagatcttc tttggcaaga ctaggaacgg aggtggcnat gtggacnttc 240
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 tgtgccaaat cggccatttc acagtgccac tgggtgggca gcangtcct ctgagagtct 360
 ctccgtatgt gaatgggan atccagangg ctganatcag gtncagcca nttccccgtc 420
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 anatccactt ccagaanccc acccgcgggg gcggagatgt aagacgccct gacagtcgta 540

ccccaaggac aacagggcct aacagtcttc acctcctgaa tcaaggctan gggcctcccc 600
cttctcatcc tccccacccc ccccgccaaa ggttctcaan actgggcctg ggctttntg 659

<210> 6

<211> 631

<212> DNA

<213> Apoptin-Associating Clone

<400> 6

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gccagttgag tggccggagg gtgttggtca ctggatttcc tgccagcctc aggtgagtg 180
aggaggagct gctggacaag ctagagatct tctttggcaa gactaggaac ggaggtggcg 240
atgtggacgt tcgggagcta ctgccaggga gtgtcatgct ggggtttgct agggatggag 300
tggctcagcg tctgtgccaa atcggccaaag ttcacagtgc cactgggtgg gcancaagtc 360
cctctgagag tctctccgta tgtgaatggg gagatccaga aggtgagat caggtcgcan 420
ccagttcccc nctcggtagt ggggtgctcaa cattcctgat atcttgatt ggcccgagc 480
tgcattacgt cctgganac aacttcanaa gccacccgc cggggcngng aggtanaagg 540
cctgacatcn ttaccccaaa ggacagcatg gncctaacag tcctcacctc cnaatcangc 600
tnnggggctn cccttctanc ntcccaact g 631

<210> 7

<211> 629

<212> DNA

<213> Apoptin-Associating Clone

<400> 7

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tgcaggtcca gcccttgag ctgcccattg tcaccacat ccaggtgatg gtgtccaagc 180
canttgagtg gccggagggt gttgggtcact ggatttcctg ccagcctcag gctgantgag 240
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gtggacgttc gggagctact gccaggaagt gtcagtctgg ggtttgctac ggatggagtg 360
gctcagcgtc tgtgccaat cggccagttc acaagtgcc ctgggtgggc agcaagtccc 420
tctgagagtc tctccgtatg tgantggnga gatcagaatg ctganattaa gtcgcatcca 480
attcctcgct cnggtactgg tgctcannat cctganatct tggattggcc ccngantnca 540
tganatctgg nagattcaat tncanaagtc canccnncng ncgggaagta nangccccan 600
anttcntnnc ntangnncag canngcctg 629

<210> 8

<211> 138

<212> PRT

<213> Apoptin-Associating Clone

<400> 8

His Glu Gly Pro Lys Val Ala Glu Gln Val Leu Gln Gln Lys Glu His
1 5 10 15

Thr Ile Asn Met Glu Glu Cys Arg Leu Arg Val Gln Val Gln Pro Leu
20 25 30

Glu Leu Pro Met Val Thr Thr Ile Gln Val Ser Ser Gln Leu Ser Gly
35 40 45

Arg Arg Val Leu Val Thr Gly Phe Pro Ala Ser Leu Arg Leu Ser Glu
50 55 60

Glu Glu Leu Leu Asp Lys Leu Glu Ile Phe Phe Gly Lys Thr Arg Asn
65 70 75 80

Gly Gly Gly Asp Val Asp Val Arg Glu Leu Leu Pro Gly Ser Val Met
85 90 95

Leu Gly Phe Ala Arg Asp Gly Val Ala Gln Arg Leu Cys Gln Ile Gly
100 105 110

Gln Val His Ser Ala Thr Gly Trp Ala Ser Ser Pro Ser Glu Ser Leu
115 120 125

Ser Val Cys Glu Trp Gly Asp Pro Glu Gly
130 135

<210> 9

<211> 282

<212> PRT

<213> Apoptin-Associating Clone

<400> 9

Met Ser Ala Pro Leu Asp Ala Ala Leu His Ala Leu Gln Glu Glu Gln
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Ala Arg Leu Lys Met Arg Leu Trp Asp Leu Gln Gln Leu Arg Lys Glu
20 25 30

Leu Gly Asp Ser Pro Lys Asp Lys Val Pro Phe Ser Val Pro Lys Ile
35 40 45

Pro Leu Val Phe Arg Gly His Thr Gln Gln Asp Pro Glu Val Pro Lys
50 55 60

Ser Leu Val Ser Asn Leu Arg Ile His Cys Pro Leu Leu Ala Gly Ser
65 70 75 80

Ala Leu Ile Thr Phe Asp Asp Pro Lys Val Ala Glu Gln Val Leu Gln
85 90 95

Gln Lys Glu His Thr Ile Asn Met Glu Glu Cys Arg Leu Arg Val Gln
100 105 110

Val Gln Pro Leu Glu Leu Pro Met Val Thr Thr Ile Gln Val Ser Ser
115 120 125

Gln Leu Ser Gly Arg Arg Val Leu Val Thr Gly Phe Pro Ala Ser Leu
130 135 140

Arg Leu Ser Glu Glu Glu Leu Leu Asp Lys Leu Glu Ile Phe Phe Gly
145 150 155 160

Lys Thr Arg Asn Gly Gly Gly Asp Val Asp Val Arg Glu Leu Leu Pro
165 170 175

Gly Ser Val Met Leu Gly Phe Ala Arg Asp Gly Val Ala Gln Arg Leu
180 185 190

Cys Gln Ile Gly Gln Phe Thr Val Pro Leu Gly Gly Gln Gln Val Pro
195 200 205

Leu Arg Val Ser Pro Tyr Val Asn Gly Glu Ile Gln Lys Ala Glu Ile
210 215 220

Arg Ser Gln Pro Val Pro Arg Ser Val Leu Val Leu Asn Ile Pro Asp
225 230 235 240

Ile Leu Asp Gly Pro Glu Leu His Asp Val Leu Glu Ile His Phe Gln
245 250 255

Lys Pro Thr Arg Gly Gly Gly Gly Arg Gly Pro Asp Ser Arg Thr Pro
260 265 270

Arg Thr Ala Gly Pro Ser Ser Leu His Leu
275 280

<210> 10

<211> 207

<212> PRT

<213> Apoptin-Associating Clone

<400> 10

His Glu Gly Arg Ile His Cys Pro Leu Leu Ala Gly Ser Ala Leu Ile

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 Thr Phe Asp Asp Pro Lys Val Ala Glu Gln Val Leu Gln Gln Lys Glu
 20 25 30
 His Thr Ile Asn Met Glu Glu Cys Arg Leu Arg Val Gln Val Gln Pro
 35 40 45
 Leu Glu Leu Pro Met Val Thr Thr Ile Gln Val Met Val Ser Ser Xaa
 50 55 60
 Leu Ser Gly Arg Arg Val Leu Val Thr Gly Phe Pro Ala Ser Leu Arg
 65 70 75 80
 Leu Xaa Glu Glu Glu Leu Leu Asp Lys Leu Asp Leu Leu Trp Gln Xaa
 85 90 95
 Xaa Glu Arg Xaa Trp Arg Cys Gly Arg Ser Gly Ala Thr Ala Arg Glu
 100 105 110
 Cys His Ala Gly Val Cys Tyr Gly Trp Ser Gly Ser Ala Ser Val Pro
 115 120 125
 Asn Arg Pro Val His Lys Cys His Trp Val Gly Ser Lys Ser Leu Glu
 130 135 140
 Ser Leu Arg Met Xaa Xaa Arg Ser Glu Cys Xaa Val Ala Ser Asn Ser
 145 150 155 160
 Ser Leu Xaa Tyr Trp Cys Ser Xaa Ser Xaa Leu Gly Leu Ala Pro Xaa
 165 170 175
 Xaa Met Xaa Ser Gly Arg Phe Asn Xaa Xaa Ser Pro Xaa Xaa Xaa Xaa
 180 185 190
 Gly Lys Xaa Xaa Pro Xaa Xaa Ser Xaa Xaa Xaa Xaa Ser Xaa Ala
 195 200 205

<210> 11
 <211> 646
 <212> PRT
 <213> Apoptin-Associating Clone

<400> 11
 Arg Leu Arg Asn Gly His Val Gly Ile Ser Phe Val Pro Lys Glu Thr
 1 5 10 15

Gly Glu His Leu Val His Val Lys Lys Asn Gly Gln His Val Ala Ser
 20 25 30
 Ser Pro Ile Pro Val Val Ile Ser Gln Ser Glu Ile Gly Asp Ala Ser
 35 40 45
 Arg Val Arg Val Ser Gly Gln Gly Leu His Glu Gly His Thr Phe Glu
 50 55 60
 Pro Ala Glu Phe Ile Ile Asp Thr Arg Asp Ala Gly Tyr Gly Gly Leu
 65 70 75 80
 Ser Leu Ser Ile Glu Gly Pro Ser Lys Val Asp Ile Asn Thr Glu Asp
 85 90 95
 Leu Glu Asp Gly Thr Cys Arg Val Thr Tyr Cys Pro Thr Glu Pro Gly
 100 105 110
 Asn Tyr Ile Ile Asn Ile Lys Phe Ala Asp Gln His Val Pro Gly Ser
 115 120 125
 Pro Phe Ser Val Lys Val Thr Gly Glu Gly Arg Val Lys Glu Ser Ile
 130 135 140
 Thr Arg Arg Arg Arg Ala Pro Ser Val Ala Asn Val Gly Ser His Cys
 145 150 155 160
 Asp Leu Ser Leu Ile Pro Glu Ile Ser Ile Gln Asp Met Thr Ala Gln
 165 170 175
 Val Thr Ser Pro Ser Gly Lys Thr His Glu Ala Glu Ile Val Glu Gly
 180 185 190
 Glu Asn His Thr Tyr Cys Ile Arg Phe Val Pro Ala Glu Met Gly Thr
 195 200 205
 His Thr Val Ser Val Lys Tyr Lys Gly Gln His Val Pro Gly Ser Pro
 210 215 220
 Phe Gln Phe Thr Val Gly Pro Leu Gly Glu Gly Gly Ala His Lys Val
 225 230 235 240
 Arg Ala Gly Gly Pro Gly Leu Glu Arg Lys Glu Ala Gly Val Pro Ala
 245 250 255
 Glu Phe Ser Ile Trp Thr Arg Glu Ala Gly Ala Gly Gly Leu Ala Ile
 260 265 270

Ala Val Glu Gly Pro Ser Lys Ala Glu Ile Ser Phe Glu Asp Arg Lys
275 280 285

Asp Gly Ser Cys Gly Val Ala Tyr Val Val Gln Glu Pro Gly Asp Tyr
290 295 300

Glu Val Ser Val Lys Phe Asn Glu Glu His Ile Pro Asp Ser Pro Phe
305 310 315 320

Val Val Pro Val Ala Ser Pro Ser Gly Asp Ala Arg Arg Leu Thr Val
325 330 335

Ser Ser Leu Gln Glu Ser Gly Leu Lys Val Asn Gln Pro Ala Ser Phe
340 345 350

Ala Val Ser Leu Asn Gly Ala Lys Gly Ala Ile Asp Ala Lys Val His
355 360 365

Ser Pro Ser Gly Ala Leu Glu Glu Cys Tyr Val Thr Glu Ile Asp Gln
370 375 380

Asp Lys Tyr Ala Val Arg Phe Ile Pro Arg Glu Asn Gly Val Tyr Leu
385 390 395 400

Ile Asp Val Lys Phe Asn Gly Thr His Ile Pro Gly Ser Pro Phe Lys
405 410 415

Ile Arg Val Gly Glu Pro Gly His Gly Gly Asp Pro Gly Leu Val Ser
420 425 430

Ala Tyr Gly Ala Gly Leu Glu Gly Gly Val Thr Gly Asn Pro Ala Glu
435 440 445

Phe Val Val Asn Thr Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr
450 455 460

Ile Asp Gly Pro Ser Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu
465 470 475 480

Gly Tyr Arg Val Thr Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu Ile
485 490 495

Ser Ile Lys Tyr Gly Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys
500 505 510

Ala Lys Val Thr Gly Pro Arg Leu Val Ser Asn His Ser Leu His Glu
515 520 525

Thr Ser Ser Val Phe Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro
530 535 540

Gln His Gly Ala Pro Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val
545 550 555 560

Ala Lys Gly Leu Gly Leu Ser Lys Ala Tyr Val Gly Gln Lys Ser Ser
565 570 575

Phe Thr Val Asp Cys Ser Lys Ala Gly Asn Asn Met Leu Leu Val Gly
580 585 590

Val His Gly Pro Arg Thr Pro Cys Glu Glu Ile Leu Val Lys His Val
595 600 605

Gly Ser Arg Leu Tyr Ser Val Ser Tyr Leu Leu Lys Asp Lys Gly Glu
610 615 620

Tyr Thr Leu Val Val Lys Trp Gly His Glu His Ile Pro Gly Ser Pro
625 630 635 640

Tyr Arg Val Val Val Pro
645

<210> 12

<211> 211

<212> PRT

<213> Apoptin-Associating Clone

<400> 12

His Glu Gly Arg Gly Val Thr Gly Asn Pro Ala Glu Phe Val Val Asn
1 5 10 15

Thr Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr Ile Asp Gly Pro
20 25 30

Ser Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu Gly Tyr Arg Val
35 40 45

Thr Tyr Thr Pro Met Pro Gly Ser Tyr Leu Ile Ser Ile Lys Tyr Gly
50 55 60

Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys Ala Lys Val Thr Gly
65 70 75 80

Pro Arg Leu Val Ser Asn His Ser Leu His Glu Thr Ser Ser Val Phe
85 90 95

Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro His His Gly Ala Pro
100 105 110

Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val Ala Lys Gly Leu Gly
115 120 125

Leu Ser Lys Ala Tyr Val His Lys Ser Ser Phe Thr Val Asp Cys Ser
130 135 140

Lys Ala Cys Ile Ile Met Leu Leu Val Gly Val His Gly Pro Trp Thr
145 150 155 160

Pro Cys Asp Glu Ile Leu Val Lys Ala Arg Gly Gln Pro Ala Leu Gln
165 170 175

Arg Val Leu Thr Cys Phe Lys Asp Lys Gly Glu Val His Thr Gly Gly
180 185 190

Gln Asn Gly Gly Asp Tyr Gln Ile Pro Cys Lys Pro Leu Pro Leu Cys
195 200 205

Gly Cys Pro
210

<210> 13

<211> 213

<212> PRT

<213> Apoptin-Associating Clone

<400> 13

His Glu Gly Arg Pro Thr Glu Pro Gly Asn Tyr Ile Ile Asn Ile Lys
1 5 10 15

Phe Ala Asp Gln His Val Pro Gly Ser Pro Phe Ser Val Lys Val Thr
20 25 30

Gly Glu Gly Arg Val Lys Glu Ser Ile Thr Arg Arg Arg Arg Ala Pro
35 40 45

Ser Val Ala Asn Val Gly Ser His Cys Asp Leu Ser Leu Lys Ile Pro
50 55 60

Glu Ile Ser Ile Gln Asp Met Thr Ala Gln Val Thr Ser Pro Ser Gly
65 70 75 80

Lys Thr His Glu Ala Glu Ile Val Glu Gly Glu Asn His Thr Tyr Cys

85

90

95

Ile Arg Phe Val Pro Ala Glu Met Gly Thr His Thr Val Ser Val Lys
100 105 110

Tyr Lys Gly Gln His Val Pro Gly Ser Pro Phe Gln Phe Thr Val Gly
115 120 125

Pro Leu Gly Glu Gly Gly Ala His Xaa Val Arg Ala Gly Gly Pro Gly
130 135 140

Leu Xaa Lys Ser Ser Trp Ser Ala Ser Arg Ile Gln Tyr Leu Gly Pro
145 150 155 160

Gly Lys Leu Val Leu Glu Ala Trp Pro Leu Leu Ser Xaa Ala Pro Ala
165 170 175

Xaa Leu Xaa Ser Leu Leu Arg Thr Ala Arg Thr Ala Pro Val Val Leu
180 185 190

Leu Met Leu Val Xaa Glu Pro Ser Asp Xaa Asn Pro Xaa Gln Val Ser
195 200 205

Thr Lys Glu His Xaa
210

B/cond.